

20-1041: Polyclonal antibody to Caspase-6

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| Clonality : | Polyclonal |
| Application : | IP,IHC,WB |
| Reactivity : | Dog,Rat,Mouse,Human |
| Gene : | CASP6 |
| Gene ID : | 839 |
| Uniprot ID : | P55212 |
| Format : | Sera |
| Alternative Name : | Apoptotic protease Mch-2, MCH2 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | A recombinant catalytically active human Caspase-6 protein was used as the immunogen for this antibody |

Description

Caspases belong to the cysteine-aspartic acid protease (Caspase) family which plays a major role in the transduction of the apoptotic signal and execution of apoptosis in mammalian cells. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This protein could be processed by caspases 7, 8 and 10, and is thought to function as a downstream. Caspase 3 (CPP32) and Caspase 6 (Mch2) are the major active caspases in apoptotic cells, and are activated in response to distinct apoptosis-inducing stimuli and in all cell lines analyzed. Both CPP32 and Mch2 are present in apoptotic cells as multiple active species. Caspase-6 cleaves nuclear mitotic apparatus protein (NuMA) and mediates the shrinkage and fragmentation of nuclei. This Active/Cleaved Caspase-6 polyclonal antibody recognizes the large and small subunits of caspase-6. Whereas the antisera has a strong preference for active/cleaved caspase-6, in some cell or tissue systems or techniques the antisera may also recognize the ~34 kDa proform of caspase-6 as well as intermediate caspase-6 cleavage fragments.

Product Info

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| Amount : | 50 µl |
| Content : | 50 µl sera |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

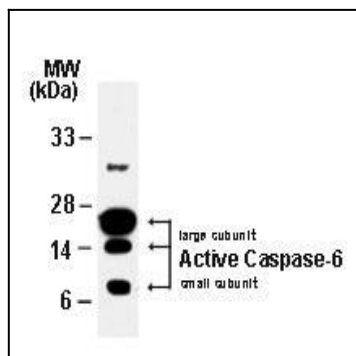


Fig:1 Western blot analysis of Caspase-6 using Caspase-6 (20-1041) polyclonal antibody. Recombinant catalytically active caspase-6 was Fig:1 Western blotted with Active/Cleaved Caspase-6 antibody. The antibody detected both the large and small subunits of Caspase-6.

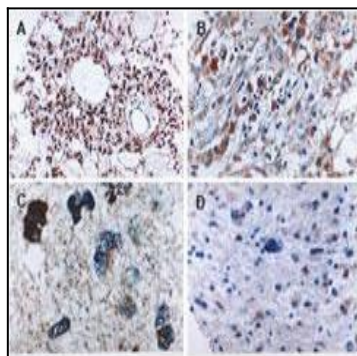


Fig:2 Formalin-fixed paraffin-embedded tissue sections of human gliomas stained for Active/Cleaved Caspase-6 expression using Caspase-6 (20-1041) antibody at 1:2000. Gemistocytoma (low grade tumor) at low (A) and high (B) magnification. Two examples of anaplastic, high grade (III) infiltrating gliomas (C and D). Increased active/cleaved Caspase-6 may be seen in high grade, compared to low grade tumors. Hematoxylin-eosin counterstain.



Fig:3 Formalin-fixed paraffin-embedded tissue section of dog cerebellum stained for Active/Cleaved Caspase-6 expression using Caspase-6 (20-1041) antibody at 1:2000. Hematoxylin-eosin counterstain.